



>>Entry Name: 2-Methylene-1,3-propanediol, 9CI

CAS Registry Number: 3513-81-3

$\text{H}_2\text{C}=\text{C}(\text{CH}_2\text{OH})_2$

Molecular Formula: $\text{C}_4\text{H}_8\text{O}_2$

Molecular Weight: 88.106

Accurate Mass: 88.05243

Percentage Composition: C 54.53%; H 9.15%; O 36.32%

Use/Importance: Reagent for protection of carbonyl compds. Water sol. polymers of its esters show antitumour activity

Boiling Point: Bp_{32} 127-129°

Density: d_4^{20} 1.081

Refractive Index: n_D^{20} 1.4758

Aldrich: 33951-2

Fluka: 66891

>>Derivative: Di-Ac

CAS Registry Number: 3775-29-9

Molecular Formula: $\text{C}_8\text{H}_{12}\text{O}_4$

Molecular Weight: 172.18

Accurate Mass: 172.07356

Percentage Composition: C 55.81%; H 7.02%; O 37.17%

Physical Description: Liq.

Boiling Point: Bp_{12} 100.5-101°

Density: d^{72} 1.066

Refractive Index: n_D^{22} 1.4345

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 220C, (nmr)

Mooradian, A. *et al.*, *J.A.C.S.*, 1945, **67**, 942, (synth)

Corey, E.J. *et al.*, *Tet. Lett.*, 1975, 3775-3778, (synth)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1977, **6**, 379, (use)

Ger. Pat., 1978, Bayer, 2 705 189; *CA*, **90**, 661z, (polymers)

Grue-Sørensen, G. *et al.*, *J. Med. Chem.*, 1988, **31**, 1174-1178, (synth, pmr)